Hams in the Hood:

Providing Neighborhood Links in Emergency Communications

Curt Black – WR5J

Seattle ACS

Frank Gaul – KE7LHC

Chair, Queen Anne/Magnolia Emergency Planning Committee

Cindi Barker – KD7KSH

District Council Communications Hub Coordinator – W. Seattle

Brief Discussion…

Questions for YOU -- How can we best:

1. Connect Hams with the Hub in their neighborhood?
2. Fold Hams into Hub Drills and Organization?
3. Use the Hubs and the Interest they Create to Recruit Fresh Hams?
4. Get the Word out on SNAP and Hubs?

Seattle ACS - Member locations - Windows Internet Explorer

http://www.seattleacs.com/component/option,com_wrapper/Itemid,100/

File Edit View Favorites Tools Help

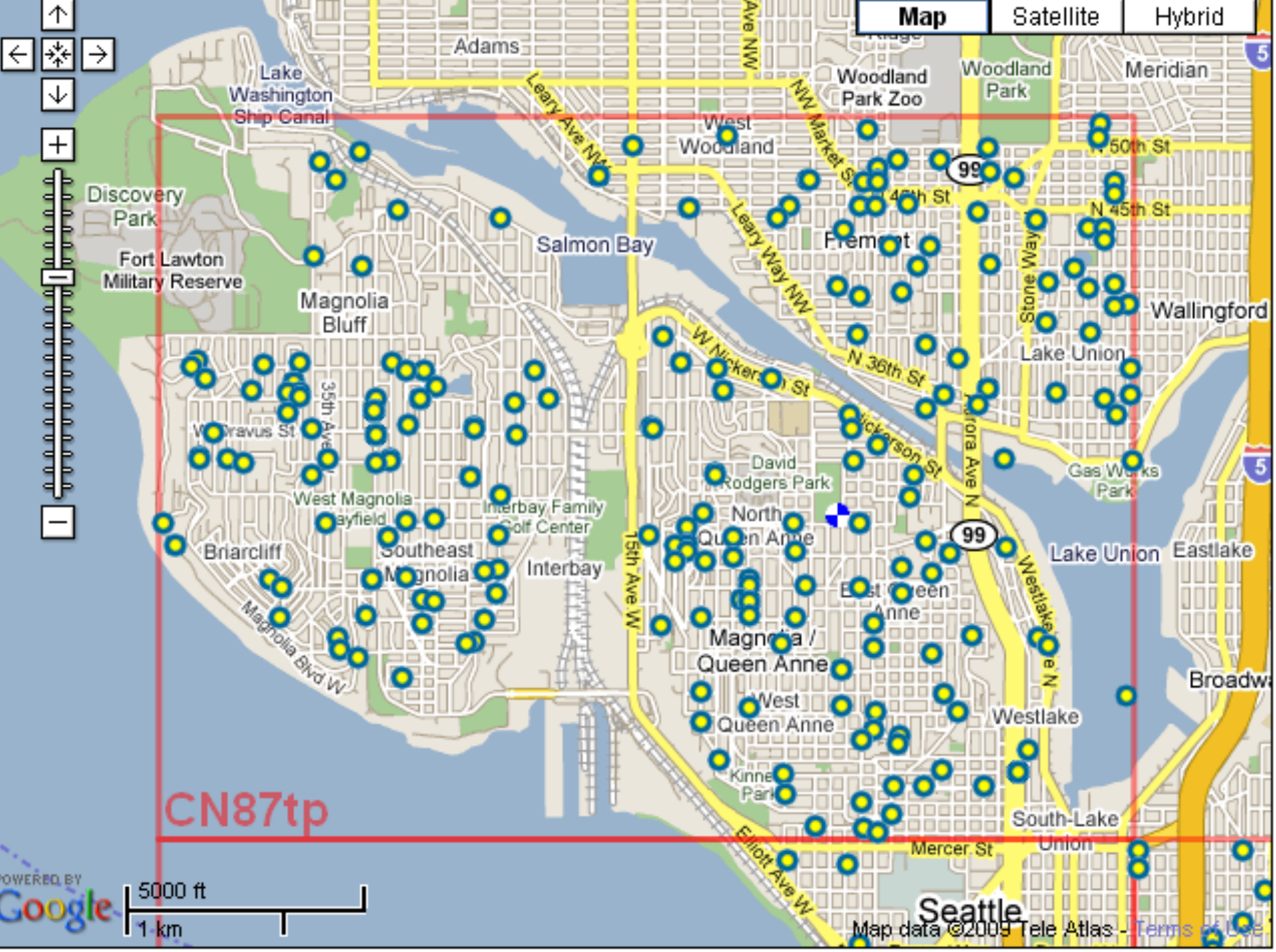
Web Search | Bookmarks | Settings | Get IE8 now! | Groups | Weather | Maps | Mail

Merriam-Webster | M-W Online Dictionary | M-W Online Thesaurus | Word of the Day

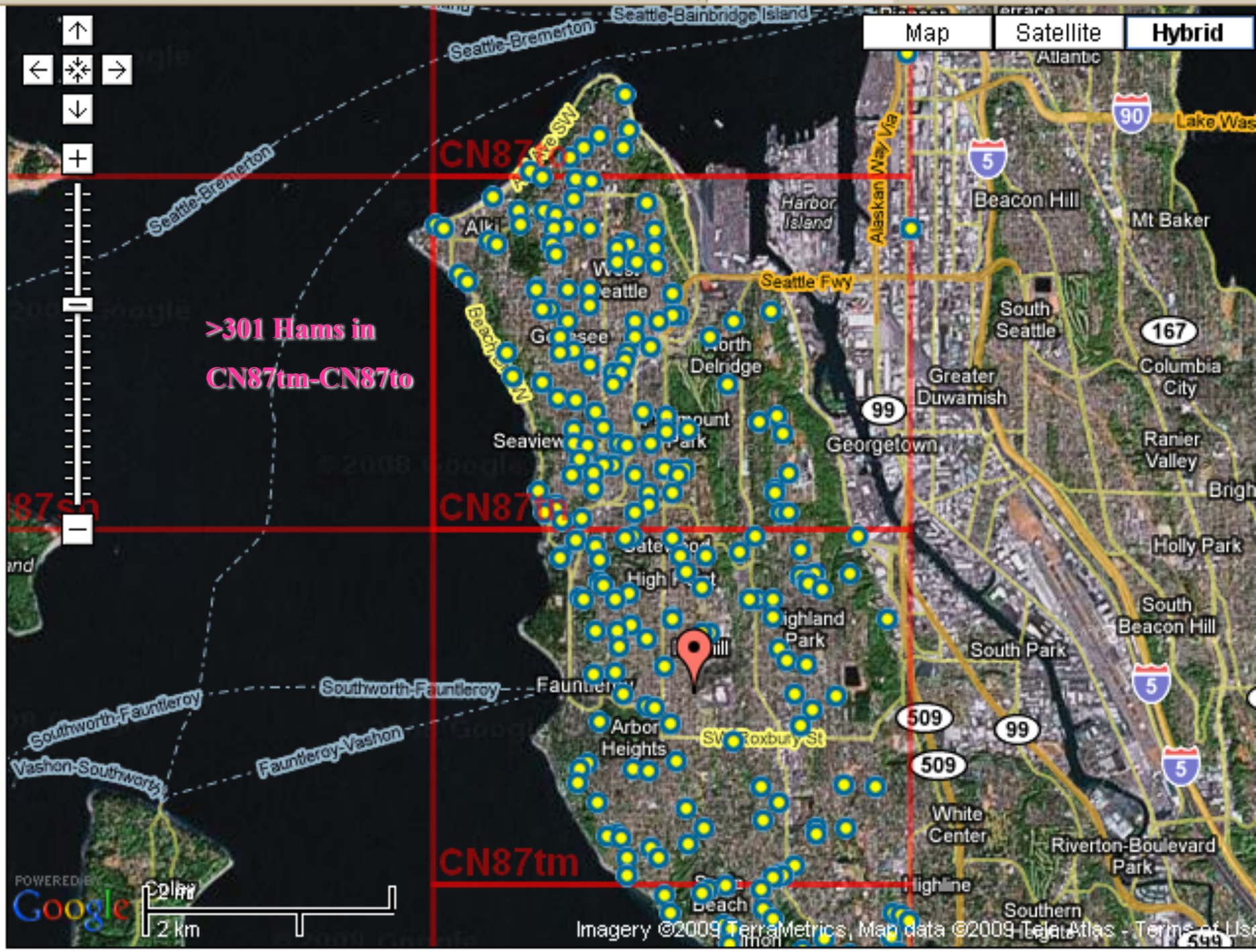
Google | seattle acs | Go | Bookmarks | 104 blocked | Check | AutoLink | AutoFill | Send to

Seattle ACS - Member locations | Home | Full Screen | Print | Tools | Page

Member locations



Clear Show Home Auto Center Home 500


Map
Satellite
Hybrid
>301 Hams in
CN87tm-CN87to
CN87to
CN87tn
CN87tm
Seattle-Bainbridge Island
Seattle-Bremerton
Southworth-Fauntleroy
Fauntleroy-Vashon
Vashon-Southworth
Harbor Island
Alaskan Way Viaduct
Seattle Fwy
Beach Dr SW
Beacon Hill
Mt Baker
South Seattle
Columbia City
Greater Duwamish
Georgetown
Ranier Valley
Holly Park
South Beacon Hill
South Park
Seaview
North Delridge
Highland Park
Arbor Heights
SW Roxbury St
White Center
Riverton-Boulevard Park
Southern Heights
Highline
Beach
Lake Was
Atlantic
2 mi
2 km
Imagery ©2009 TerraMetrics, Map data ©2009 Tele Atlas - Terms of Use

Seattle Emergency Operations Center

Two-Way Bridge from Chaos to the Outside

Winlink 2000 | Global Radio Email System - Windows Internet Explorer

http://www.winlink.org/

Winlink 2000 | Global Radio Email System

Home Full Screen Print Tools Page

WINLINK 2000

Global Radio Email System ON AIR

Search

Home | About | Applications | E-mail Us | How-to... | Links | Maps | Reports | Software | WebMail Login | FAQ | Site Login

Winlink 2000

Winlink 2000 (WL2K) is a worldwide ***system*** of volunteer resources supporting e-mail by radio, with non-commercial links to internet e-mail. These resources come from Amateur Radio, the Military Affiliate Radio Systems (MARS), and other volunteer organizations. The system provides valuable service to emergency communicators, and to licensed operators without access to the internet. The Winlink Development Team (WDT) is committed to continuous improvement using the most efficient
long-di
networ

To use
license
the sys

Winlink 2000 is an all-volunteer, non-profit project of the Amateur Radio Safety Foundation, Inc. It functions only through your generous donations and the unselfish efforts of hundreds of Amateur Radio operators around the world. Please support WL2K with your tax-deductible donation.

Quick!!

- **Is this an EMERGENCY?** Concerned about a WL2K user or family or friends at sea? ***Get help through Winlink 2000 NOW.***
- Want the position of a WL2K user? **Click here.**
- Want to get started using Winlink radio email? **Go here.**
- Update your software with the latest ***HF frequency list.***

Start Here

Then look for Paclink and Airmail and

LOADING_WL2K_USER_PROGRAMS-subscribe@yahoogroups.com

Google Translate

Select Language

Gadgets powered by Google

Internet 100%

PaclinkW - WR5J-10

File Connect Abort Logs Update Help No CMS Connection

*** Searching for available CMS sites...

*** No Ch

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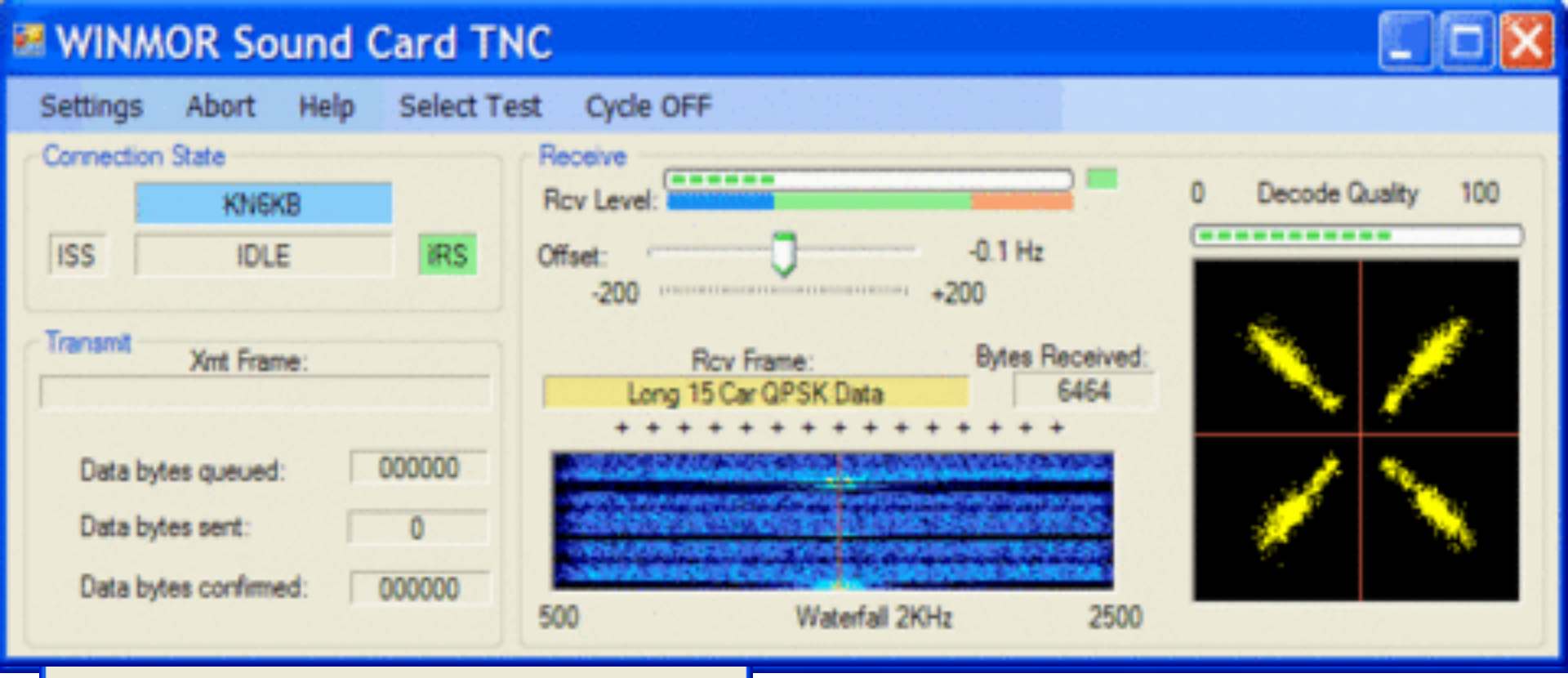
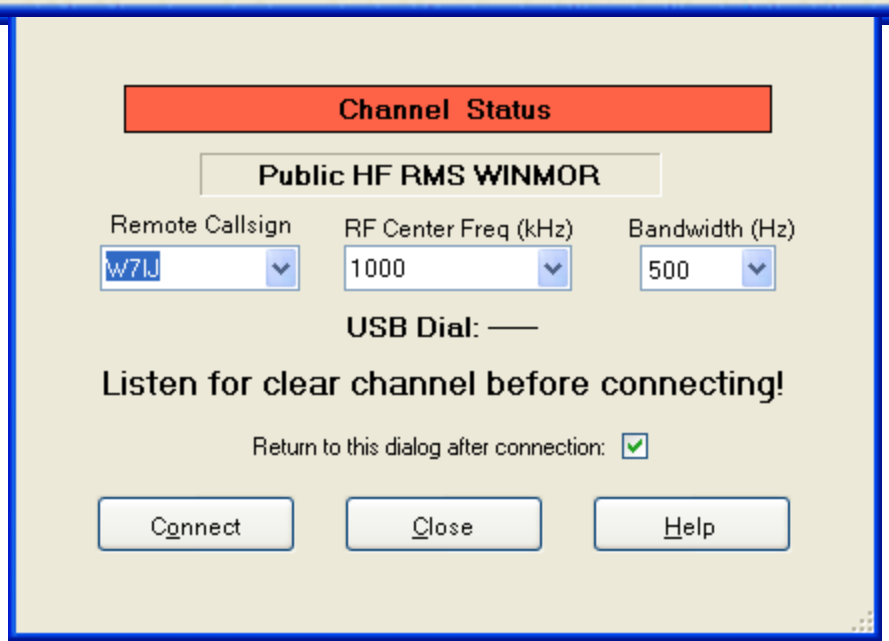
PaclinkW - WR5J-10

File Connect Abort Logs Update Help No CMS Connection

- Site Properties...
- Polling Interval...
- AGW Engine...
- Packet AGW Channels...
- Packet TNC Channels...
- Pactor TNC Channels...
- WINMOR Channels
- Telnet Channels...
- Tactical Accounts...
- Callsign Accounts...
- Edit Account Profile...
- Backup INI file...





Winmor - Can't Demo yet…

Maybe next week, though

Real-Time RMS Packet Station Positions | Winlink 2000 - Windows Internet Explorer

http://www.winlink.org/RMSPacketPositions

Real-Time RMS Packet Station Positions | Winlink 2000

Map | Satellite | Hybrid | Terrain

W7ACS-10

Washington

Seattle · Tacoma · Olympia · Everett · Bellevue · Spokane · Yakima · Kennewick · Richland · Vancouver · Portland · Gresham · Salem · Longview · Aberdeen · Wenatchee · Moses Lake · Ellensburg · Pendleton · Hermiston · Olympic National Park · Mt Rainier National Park · Mt Baker National Forest

AA0KU-10
AA3JE-10
AA4HF-10
AA5QJ-10
AA7ZV-10
AA9MQ-1
AB2G-10
AB7AA-10
AB9FT-10
AC7YY-10
AD7DY-10
AE5R-10
AH6JA
AI0W-10
AI5RC-10
AJ4HV-10
AL1Q-10
DB0FHW-9
DB0LJ-10
EI8IG-10
F1IOI-10
F5ORE-10
G4ZJH-10
G7CRG-10
HB9MM-8
IK2XDE-2
IR3DQ-10
IV3XHR

MS HF Station Positions | Winlink 2000 - Windows Internet Explorer

http://www.winlink.org/RMSHFPositions

Google

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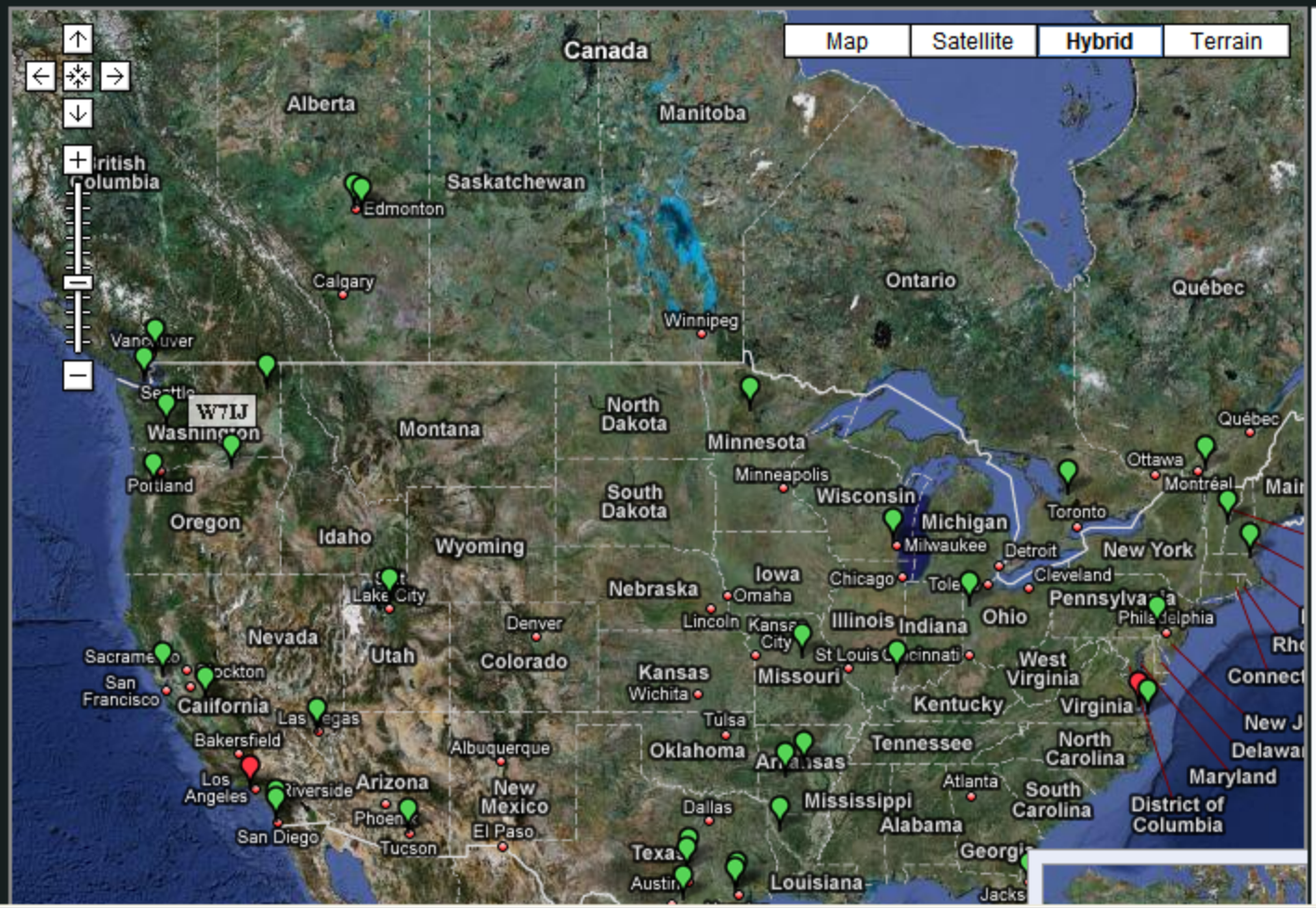
Merriam-Webster | M-W Online Dictionary | M-W Online Thesaurus | Word of the Day

oogle | ham radio repeaters | Go | Bookmarks | 105 blocked | Check | AutoLink | AutoFill | Send to | ham | Settin

RMS HF Station Positions | Winlink 2000

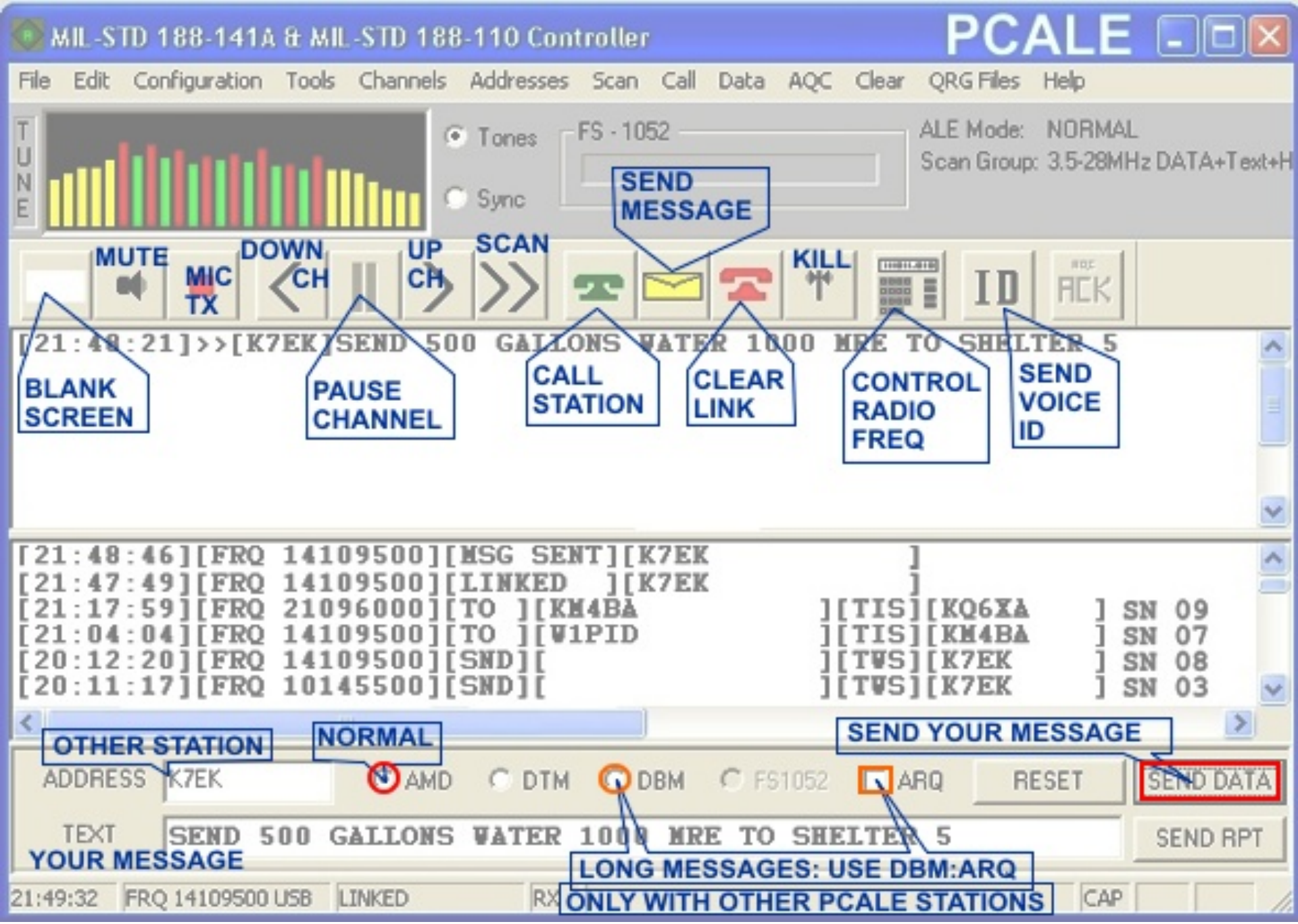
Home | Full Screen | Print | Tools | Page | H

RMS HF Station Positions



AA5QJ
AB7AA
AD5OH
AE5R
BD4OS
CR6CRA
DA1BT
DA5UDI
DB0FHW
DH1TI
DX1FLR
EA8AYT
EA8RCT
HB9AK
HB9MM
HP2XBA
IV3XHR
K0SI
K1SGA
K6CYC
K6IXA
K7DAV
K7ODN
KA6IQA
KB5HCD
KB6YNO
KB9MMC

Internet | 100%


MIL-STD 188-141A & MIL-STD 188-110 Controller
PCALE
File Edit Configuration Tools Channels Addresses Scan Call Data AQC Clear QRG Files Help
TUNE
Tones
Sync
FS - 1052
ALE Mode: NORMAL
Scan Group: 3.5-28MHz DATA+Text+H
SEND MESSAGE
MUTE
MIC TX
DOWN CH
UP CH
SCAN
KILL
ID
ACK
[21:49:21]>>[K7EK]SEND 500 GALLONS WATER 1000 MRE TO SHELTER 5
BLANK SCREEN
PAUSE CHANNEL
CALL STATION
CLEAR LINK
CONTROL RADIO FREQ
SEND VOICE ID
[21:48:46][FRQ 14109500][MSG SENT][K7EK]
[21:47:49][FRQ 14109500][LINKED][K7EK]
[21:17:59][FRQ 21096000][TO][KM4BA][TIS][KQ6XA] SN 09
[21:04:04][FRQ 14109500][TO][W1PID][TIS][KM4BA] SN 07
[20:12:20][FRQ 14109500][SND][ ][TWS][K7EK] SN 08
[20:11:17][FRQ 10145500][SND][ ][TWS][K7EK] SN 03
OTHER STATION
NORMAL
SEND YOUR MESSAGE
ADDRESS K7EK
AMD
DTM
DBM
FS1052
ARQ
RESET
SEND DATA
TEXT
SEND 500 GALLONS WATER 1000 MRE TO SHELTER 5
SEND RPT
YOUR MESSAGE
LONG MESSAGES: USE DBM:ARQ
ONLY WITH OTHER PCALE STATIONS
21:49:32
FRQ 14109500 USB
LINKED
RX
CAP

HIGH FREQUENCY NETWORK

PILOT STATIONS
IARU REGION 2

Amateur Radio Ham Radio Repeater Mapping WA Washington - Windows Internet Explorer

http://www.levinecentral.com/repeaters/google_mapping.php?State=WA&BP2=1&BP70=1

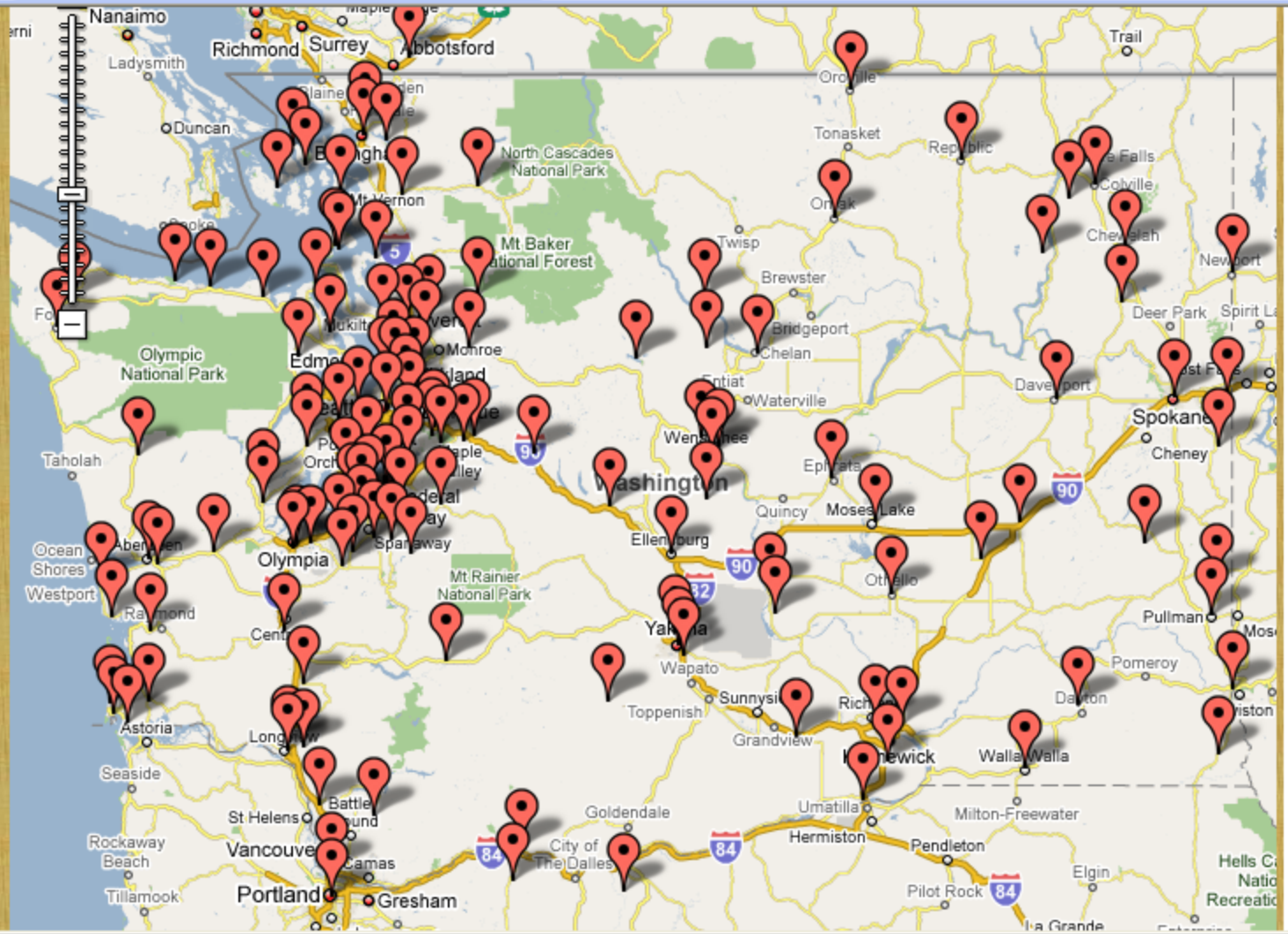
Edit View Favorites Tools Help

Web Search | Bookmarks | Settings | Get IE8 now! | Groups | Weather | Maps | Mail | My Yahoo!

Merriam-Webster | M-W Online Dictionary | M-W Online Thesaurus | Word of the Day

amature radio repeaters | Go | Bookmarks | 105 blocked | Check | AutoLink | AutoFill | Send to | map

Amateur Radio Ham Radio Repeater Mapping WA Wa... | Home | Full Screen | Print | Tools | Page



Cell Phone Repeaters
Improve Your Cell Phone Signal. Large Facility, Residential, Mobile
myCellularSolutions.com

Event Communications, Inc
877-TWO-WAYS
Nationwide Motorola Radio Rentals The Company Who Cares
www.eventcomm.net

Ham Radio Kits
20+ Radio Kits at Great Prices Shop, Compare and Save at Pronto.
RadioKit.Pronto.com

Free Cobra 4-Band Radio
Get 20-100% Off A Cobra 200 4-Band Amateur Radio. See Site For Details
www.click-see-save.com/

Radio Equipment
Minneapolis radio equipment. Always the

Internet | 100%

Evergreen Intertie

49 + Linked Repeaters

Connecting from Seattle into Northern California and East to Lookout Pass, Montana

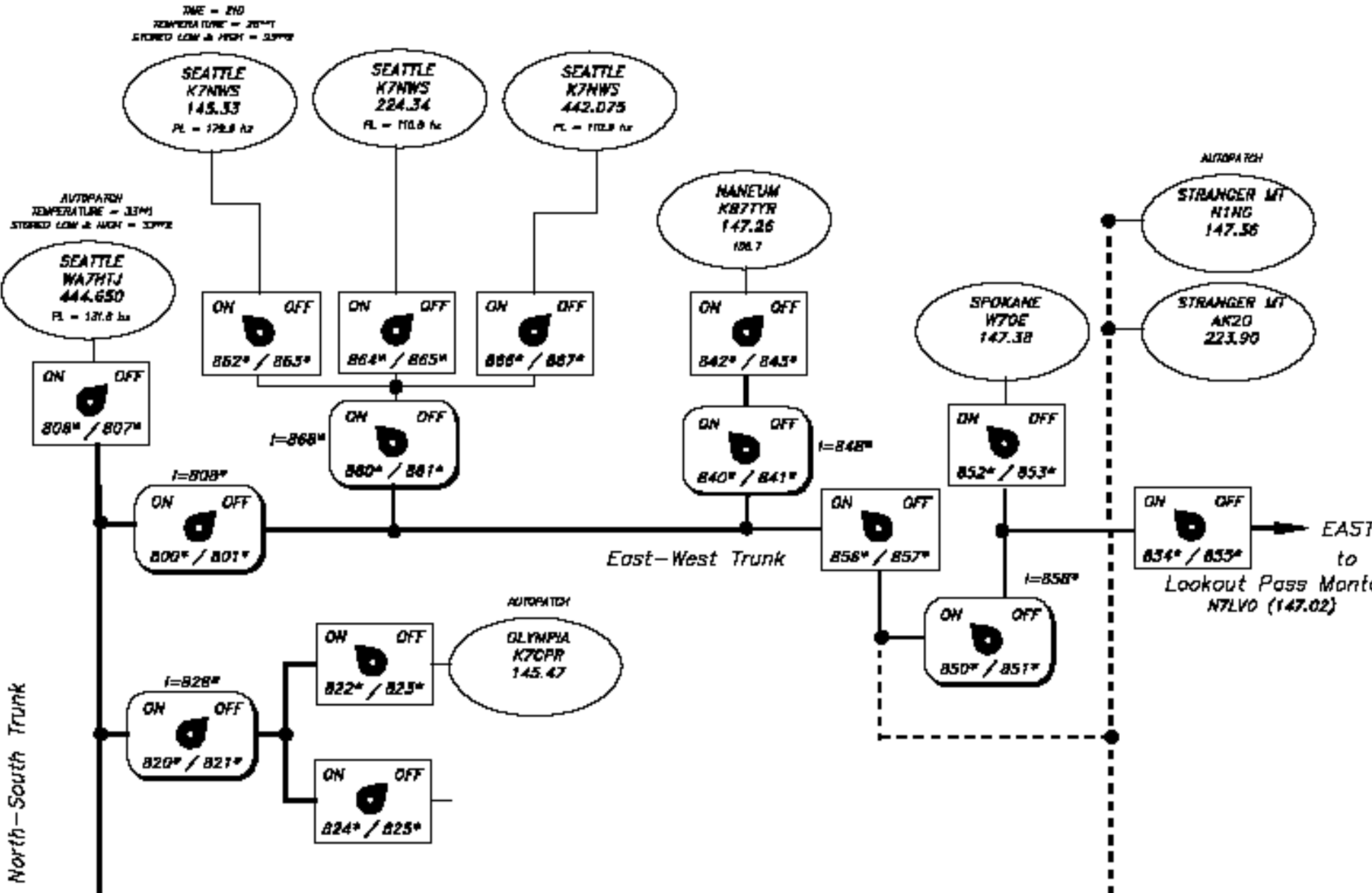
Using touch-tones on the repeater input to intertie repeaters on UHF links

Contact:

http://www.evergreenintertie.com/

hiip://groups.yahoo.com/group/evergreenintertie

WASHINGTON


SEATTLE
K7NWS
145.33
SEATTLE
K7NWS
224.34
SEATTLE
K7NWS
442.075
AUTOPATCH
SEATTLE
WA7HTJ
444.650
NANEUM
KB7TYR
147.26
AUTOPATCH
STRANGER MT
N1NG
147.36
SPOKANE
W7OE
147.38
STRANGER MT
AK2O
223.90
ON OFF
862* / 863*
864* / 865*
866* / 867*
842* / 843*
808* / 807*
868*
860* / 861*
840* / 841*
848*
852* / 853*
808*
800* / 801*
856* / 857*
854* / 855*
EAST
to
Lookout Pass Mont
N7LVO (147.02)
East–West Trunk
858*
850* / 851*
AUTOPATCH
OLYMPIA
K7OPR
145.47
828*
822* / 823*
820* / 821*
824* / 825*
North–South Trunk

4WWC's EchoLinkMap - Windows Internet Explorer

http://www.echolinkmap.org/

Welcome to N4WWC's EchoLinkMap.org Project

N4WWC's EchoLinkMap
http://www.echolinkmap.org/

Best viewed in 1024 x 768 | Add Node - Remove Node - FAQ's - Donate

Edit View History Bookmarks Yahoo! Tools Help

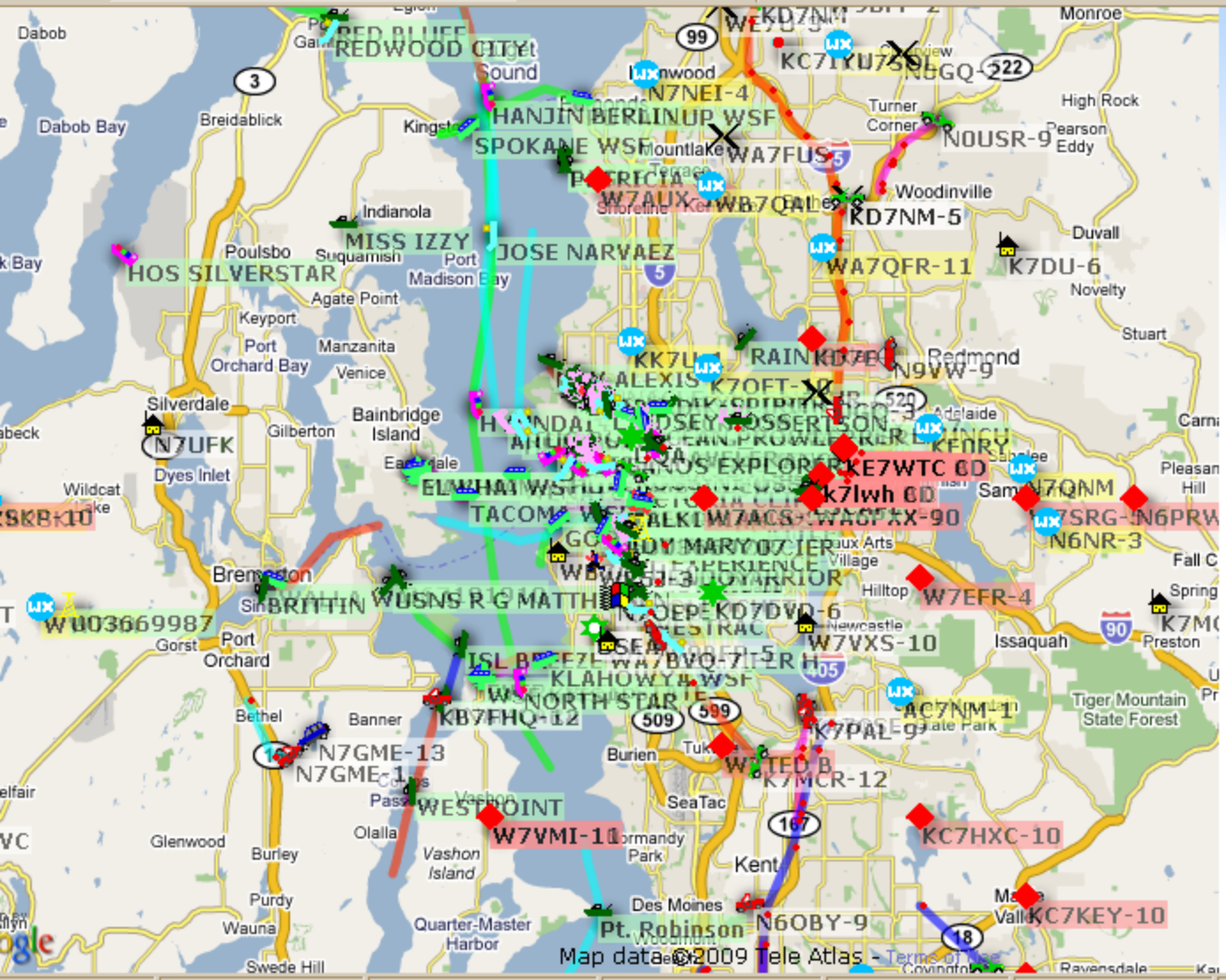
http://aprs.fi/?lat=47.5718&lng=-122.3763&mt=m&z=10&timerange=86400

Yahoo

Most Visited | Smart Bookmarks | Merriam-Webster Dicti...

AVG | Search | Active Surf-Shield | Search-Shield | AVG Info | Get More

Search Web | Groups | Movies | Weather | Maps | Translate Page



aprs.fi - kb7ild-14 - Log out

Show last:
1 hour

Track callsign: [Clear / Show all]
Search [?]

Address, city or Locator: [Clear]
Search [?]

Wx: 45.5°F 65% 1019 mbar 0.5 MPH NE

Other views:

- Station info
- Raw packets
- Status packets - Beacon packets
- Messages - Bulletin board
- Prefix browsing
- Google Earth KML [?]
- Preferences

Information:

Blog · APRS stations currently moving · Database statistics · Linking to aprs.fi · A sites · Technical details · Change log · Planned changes · Credits and thanks

idle

Ads by Google

APRS
GPS Watch
Child Tracking Software
Automobile GPS Tracking
Spouse Tracking

Sydney: Sat 08:25 | Beijing: Sat 05:25 | Tashkent: Sat 02:25 | Moscow: Sat 01:25 | Cairo: Fri 23:25 | Vienna: Fri 23:25 | GMT/UTC: Fri 21:25 | Buenos Aires (BA, CF): Fri

PSKmail Client 0.9.beta4 eeePC
Terminal
Mail headers
Files
APRS
Lat: 51.374012
Long: 5.336558
APRS Icon
Beacon Period
30
Beacon on
Course
Incoming messages
Status message
eeepc test
WX
Set wx
Speed (m/s)
0.05
EMERGENCY
Ping
Link
Get Mesg
Beacon
Listening
MAIL/APRS
09:39
Launch
fldigi
pskm
PSK
YAESU
10.147.25
2008 07 09

Sound Card Software :
1. Ham Radio Deluxe 2.MultiPSK 3.MixW 4.NBEMS/FLdigi

* MULTIPSK - THE MULTIMODE DIGITAL TRANSCEIVER * Version 4.13 Configuration

Lang(u)age | Translation file | Help and licence | PC | Options for serial ports | Serial port | Serial port for GPS | Serial port for KISS | Sound Card (Input)
Auxiliary Sound Card (from an input) | Auxiliary Sound Card (to speaker) | Mixer | Sequence (long macro) | Fonts | Your Logbook | Asiatic charsets (Japane

Open "Configuration" screen after start up
Open RX/TX screen after start up

I/Q interfaces for SdR transceivers
Direct via the sound card | +Speaker
SdR interface (Loop.DLL) | Correction
Connection to a TCP/IP modem server

Deutsche Hilfe
Default Parameters
Save Para. | Load Para.

Decoding: from the sound input or a file
EXAMPLE_BPSK31
Load a new playing sound file
Sound input | Play | Stop | Sound file
Repeat the recording | Pause (s): 1 | 3 | 10

Recording on a .WAV sound file
RECORDING
Load a new recording sound file
No recording | Recording
Recording duration
minutes 240

Beacon mode (all modes)
No | Yes
Odd message: Séquence 1
Even message: Sequence 1
Prior serial number: Pause 10 s | Duration 15 min

UTC correction in hours ---> 0
03/30/09 18:21:07 UTC
UTC start time for record or beacon
No | Yes 00:00

XIT (for PSK modes, THROB(X), MFSK, CW and CCW) and initial RX/TX freq. (200 to 4300 Hz)
XIT as an offset (Hz) | XIT as a coefficient (0.0001 * Hz/Hz)
XIT: 0 x1 x10
RX Fr.: 1000 x1 x10
TX Fr.: 1000

"RX/TX screen" for the main screen
RX/TX screen
PSK Panoramic
CW Panoramic
RTTY Panoramic

TCP/IP server "On"
Initial RX/TX modes
Personal data
Checking serial port

Full-duplex sound card
Mixer control
Log book
Reading a QSO

This software is a "freeware" with limitations, for non-commercial use

Help on right click

VERSION 4.13 of (du) 14/03/2009
* interface via the sound card to a SdR transceiver (interface via la carte son à un transceiver SdR),
* TCP/IP commands to control the SdR demodulator/modulator(commandes TCP/IP pour le démodulateur/modulateur SDR),
* panoramics decode up to 3800 Hz instead of 2500 Hz (les panoramiques décodent jusqu'à 3800 Hz au lieu de 2500 Hz),
* addition of the <FILE:name> macro to transmit a file (ajout de la macro <FILE:name> pour transmettre un fichier),

Sound Card Software

MultiPSK 4.13/ Clock 1.8.3 / Multidem 2.2.2

http://f6cte.free.fr/index_anglais.htm

PSK Modes :

- BPSK31 and QPSK31
- BPSK63 and QPSK63
- BPSK125 and QPSK125

PSK10

- PSKFEC31
- PSKAM10/31/50
- MT63 (the MT63 is a PSK mode or rather MPSK)
- CHIP 64 and 128
- PSK63F
- PSK220F
- DIGISSTV "Run" protocol (in PSK63F,PSK220F)

Morse Modes :

- CW (MORSE) in OOK
- CCW (CW cohérente) in OOK
- CCW-FSK (CW cohérente in FSK)

FSK Modes :

- RTTY
- ASCII
- AMTOR
- NAVTEX System (for information as it is AMTOR)
- PACKET (AX25)
- APRS protocol
- PACTOR 1
- 1382
- GMDSS

MFSK Modes

THROB and THROBX

- MFSK16 and MFSK8
- OLIVIA
- CONTESTIA and RTTYM
- VOICE
- DOMINO DF ("mode by DeFault")
- PAX and PAX2
- MIL-STD-188-141A ("141A") + Unproto + ARQ FAE+ALE400
- DMTF

Hellschreiber Modes :

- FELD HELL in OOK
- PSK HELL in PSK
- FM HELL in MSK
- HELL 80 in FSK

FSK and MFSK Modes for transmission of picture :

- SSTV
- HF FAX

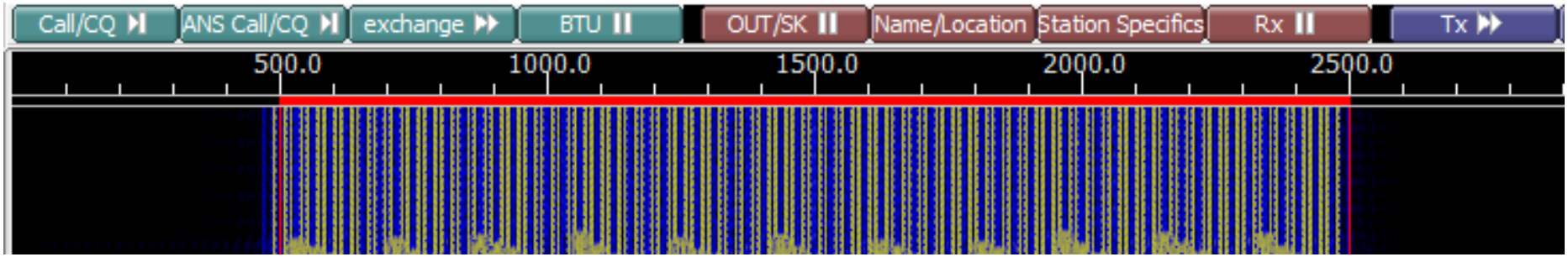
- SSTV in MFSK16

Recommended Digital Modes for EmComm with the NBEMS FLDIGI Software

- DominoEX11(FEC) – fast turn around time, good for moderate HF conditions and non-mission critical messaging
- Olivia 16/500 – slow but very accurate under poor HF conditions
- MT63 1k/long interleave – relatively fast and best suited for detailed situation reports and formal messages under moderate to good HF conditions
- MT63 2k/long interleave – very fast and extremely effective on VHF/UHF FM and no need for direct sound card to radio interface

Accuracy, speed and audio bandwidth all come into play and various modes all have their advantages and disadvantages!

MT63 2k, Long Interleave



MT63 2k long was chosen for local portable, mobile and fixed station operations on FM channels (repeater or simplex). It is extremely well suited for detailed situation reports and database transmissions for the following reasons:

- Can be used very effectively <u>without</u> a sound card interface (audio coupling)
- Extremely effective, even under very poor simplex RF conditions
- Extremely accurate decoding (major duplication of data and forward error corrected)
- Very forgiving on sound levels and requires no tuning when used on FM
- Excellent for sending larger situation reports or databases

MT63 2k long has been in use in Western Pennsylvania in several drills and public service events since 2005. The mode performs extremely well even under very adverse conditions. The fact that all one needs is a hand held transceiver and a computer (no need for sound card interface or any other hardware) makes the widespread adoption of this mode, for use on FM simplex and repeaters, a very attainable goal.

NBEMS Demo…

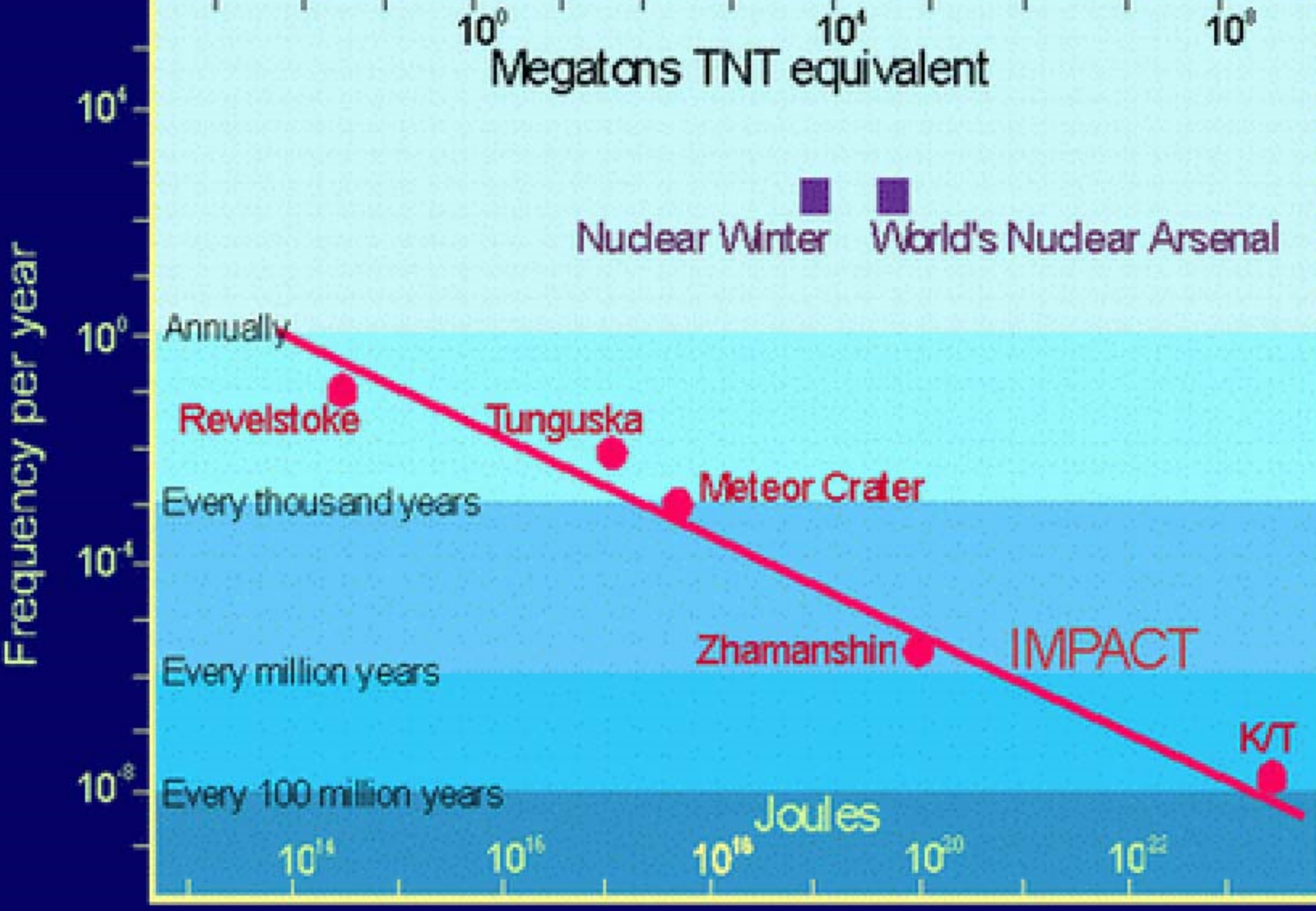
Narrow Band Emergency Messaging System

…and what impeding disaster threat did I leave out?

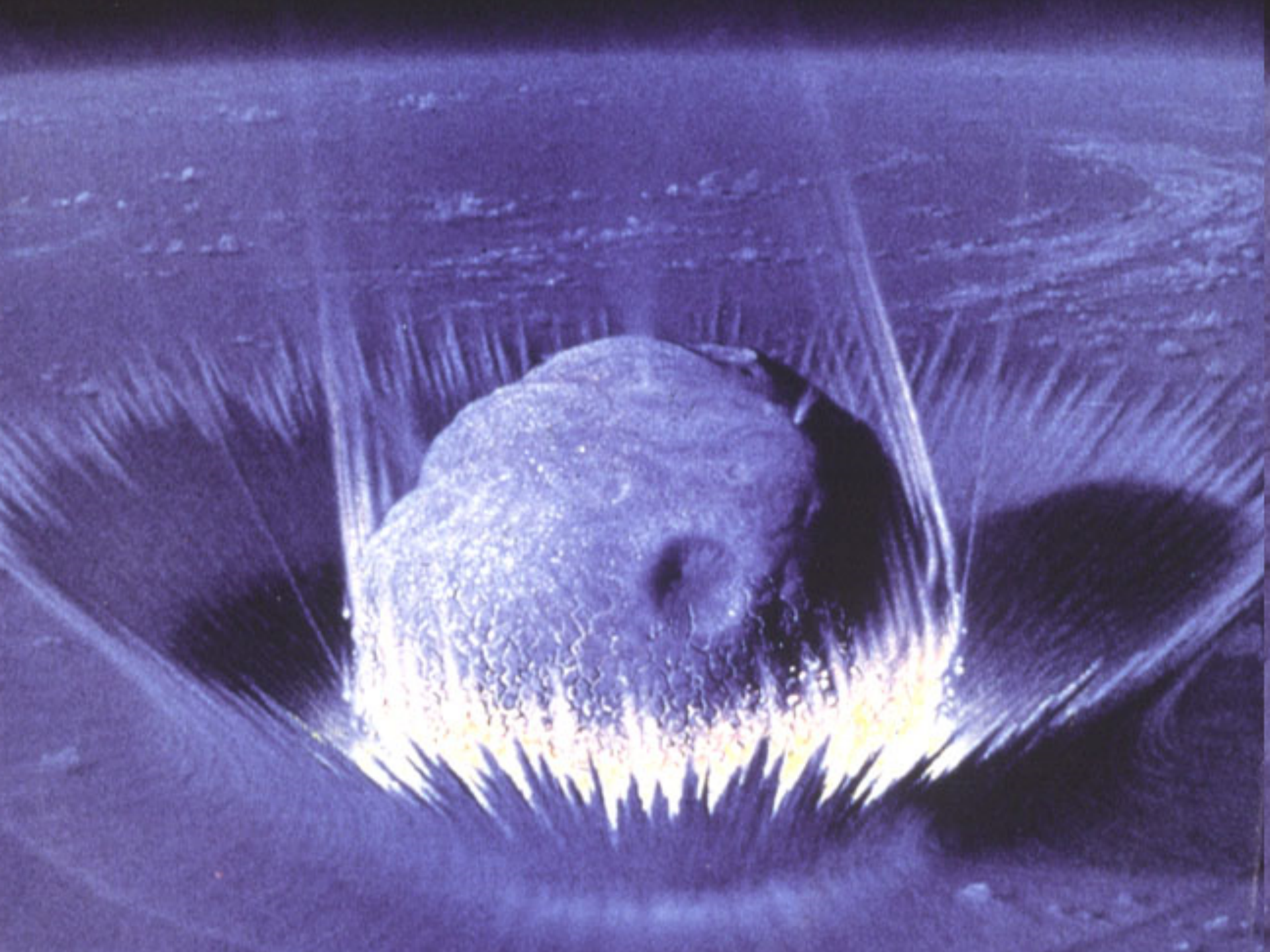
Manicouagan Structure
Quebec

SPACE DISASTER AND METEORITE ALERT!

0 300 600 km
0 300 600 mi
OCÉAN ARCTIQUE
Mer des Tchouktches
Providenia
Mer de Sibérie Orientale
Mer de Béring
Mer de Barents
Nouvelle-Zemble
Mer de Kara
Mer des Laptev
NOR.
SUÈDE
FIN.
ALL.
D.
T.
POL.
LI.
E.
BELA.
UKRAINE
R.
M.
Kaliningrad
Mourmansk
Petrozavodsk
Saint Petersbourg
Arkhangelsk
☆Moscou
Nijni-Novgorod
Kazan
Iekaterinbourg
Rostov
Novorossiisk
Volgograd
Tcheliabinsk
Astrakhan
Don
Volga
Mer Noire
Mer Caspienne
Mer d' Aral
KAZAKHSTAN
TUR.
G.
A.
AZ.
OUZ.
IRAN
Omsk
Novossibirsk
Krasnoïarsk
Irkoutsk
Lac Baïkal
Tomsk
Toura
Evénement de la Toungouska
Yenissei
Ob
Irtych
Lena
RUSSIE
Sibérie
Norilsk
Iakoutsk
Magadan
Petropavlovsk-Kamtchatski
Mer d' Okhotsk
Iles Kouriles
Sakhaline
Korsakov
Khabarovsk
Amour
CHINE
Vladivostok
JAPON
PACIFIQUE NORD
MONGOLIE


Megatons TNT equivalent
Nuclear Winter
World's Nuclear Arsenal
Frequency per year
Annually
Every thousand years
Every million years
Every 100 million years
Revelstoke
Tunguska
Meteor Crater
Zhamanshin
IMPACT
K/T
Joules

DON DAVIS
3-27-91



PA-SitRep.com (NBEMS/FLDIGI Emergency Communications for Western Pennslyvania) - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

http://www.pa-sitrep.com/NBEMS/index.html

PA-SitRep NBEMS/FLDIGI

UTC Time and Date: 20:00

Solar X-rays: NORMAL

Geomagnetic Field: QUIET

From n3kl.org

- ***Get the NBEMS/FLDIGI Software***
- ***Installation***
- ***Configuration***
- ***Calibration***
- ***Getting Started - 1st Contact***
- ***EmComm Modes - Descriptions***

Digital Emergency Communications

The purpose of this site is to help elmer those interested in NBEMS/FLDIGI for Emergency Communications and to develop standardized proceedures and settings for the use of the software.

The use of the NBEMS software requires nothing more than a laptop or desktop computer and an amateur radio transciever (even an HT) to send and receive data/text using the NBEMS soundcard-based digital software.

This site concentrates on only a few of the primary digital communications modes available within the FLDIGI software package that are best suited to Emergency Communications.

A key to promoting the widespread adoption of digital communications is to keep the protocols as simple as possible and providing means of conducting digital communications with the use of equipment and transceivers that are already commonly used.

The NBEMS/FLDIGI software is the perfect package for digital emergency communications because it is:

- FREE!
- Easy to configure
- Easy to use
- Easy to modify and standardize
- Works on Windows XP, Windows Vista and Linux systems

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http://tech.groups.yahoo.com/group/wa-digital/?yguid=9762739

r5j · black.curt@epa.gov | Group Owner - Edit Membership

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va-digital

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Info Settings

Group Information

Members: 1

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Home

Activity within 7 days: 1 New Member - New Questions

Description (Edit, Add Photo)

This group is intended to facilitate communication among Washington State ham radio operators interested in experimentation and utilization of digital communication modes over radio. The software will primarily include NBEMS (Narrow-Band Emergency Messaging System) software and other packages for reliable digital communications on the ham bands (Multipsk, Ham Radio Deluxe (HRD)).

The group will be moderated.

The group is modeled after the Pennsylvania group at:
http://www.pa-sitrep.com/NBEMS/index.html

Please start with their site to download the NBEMS software, get the MACROS and other supporting files and installation instructions. Good job Pennsylvania!

For radio operators in the Seattle Area, we plan to have weekly nets to test and practice with specific modes on both HF and VHF/UHF.

I look forward to seeing you on the waterfall!

C. W. Black - WR5J
West Seattle, Washington
black at nwfirst dot com

Most Recent Messages
(Group by Topic)

ydney: Sat 07:02 | Beijing: Sat 04:02 | Tashkent: Sat 01:02 | Moscow: Sat 00:02 | Cairo: Fri 22:02 | Vienna: Fri 22:02 | GMT/UTC: Fri 20:02 | Buenos Aires (BA, CF): Fri

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Yahoo

ALEradio	38		wr5j	black.curt@epa.gov	Individual Emails
BPQ32	298		wr5j	black.curt@epa.gov	No Email
digitalradio	3522		wr5j	black@nwfirst.com	Individual Emails
digsstv	963		wr5j	black.curt@epa.gov	Individual Emails
evergreenintertie	970		wr5j	black@nwfirst.com	Individual Emails
ham-radio-deluxe	5020		wr5j	black.curt@epa.gov	Individual Emails
HamRadioHelpGroup	3827		wr5j	black.curt@epa.gov	No Email
hfdec	145		wr5j	black.curt@epa.gov	Individual Emails
hflink	2818		wr5j	black.curt@epa.gov	Individual Emails
hspacket	95		wr5j	black.curt@epa.gov	Individual Emails
larynxandsyrinx	13		wr5j	black.curt@epa.gov	Individual Emails
linuxhams	123		wr5j	black.curt@epa.gov	No Email
LOADING_WL2K_USER_PROGRAMS	2697		wr5j	black@nwfirst.com	No Email
micbuilders	1954		wr5j	black.curt@epa.gov	No Email
mixw	4285		wr5j	black.curt@epa.gov	No Email
mkarc	110		wr5j	black.curt@epa.gov	Individual Emails
MorseKOB	98		wr5j	black@nwfirst.com	Individual Emails
multipsk	1128		wr5j	black.curt@epa.gov	Individual Emails
nature_sounds_society	455		wr5j	black.curt@epa.gov	Daily Digest
naturerecordists	1626		wr5j	black.curt@epa.gov	Individual Emails
NAVIGATOR-Interface	440		wr5j	black.curt@epa.gov	Individual Emails
NBEMSham	455		wr5j	black.curt@epa.gov	Individual Emails
nwbatchat Waiting for approval: 1 Messages	48		wr5j	black@nwfirst.com	Individual Emails
nwbatchat Waiting for approval: 1 Messages	48		(Set Profile)	black.curt@epa.gov	Daily Digest

Sydney: Sat 07:48 | Beijing: Sat 04:48 | Tashkent: Sat 01:48 | Moscow: Sat 00:48 | Cairo: Fri 22:48 | Vienna: Fri 22:48 | GMT/UTC: Fri 20:48 | Buenos Aires (BA, CF): Fri

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My Groups

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View: Simple | Expanded

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Group Name	Members		Yahoo! Profile	Email Address	Message Delivery
skcc	2275		wr5j	black@nwfirst.com	No Email
slowspeedwire	150		wr5j	black.curt@epa.gov	Individual Emails
themixwgroup	371		wr5j	black.curt@epa.gov	No Email
wa-digital	1		wr5j	black.curt@epa.gov	Individual Emails
wa-nbems	1		wr5j	black@nwfirst.com	Individual Emails
WABWOG	63		wr5j	black@nwfirst.com	Individual Emails
WABWOG	63		wr5j	black.curt@epa.gov	Individual Emails
wadec	83		wr5j	black@nwfirst.com	Individual Emails
WINMOR	725		wr5j	black.curt@epa.gov	Individual Emails
winpack	1617		wr5j	black.curt@epa.gov	Individual Emails
worldbatline	389		wr5j	black@nwfirst.com	No Email
worldbatline	389		(Set Profile)	black.curt@epa.gov	No Email
wsjtgroup	1255		wr5j	black.curt@epa.gov	No Email

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Questions?